PATENT APPLICATION: US/09/923,444

Input Set : N:\Crf3\RULE60\09923444.txt Output Set: N:\CRF3\11142001\I923444.raw

## SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
     4
            (i) APPLICANT: LI, YI
     6
                           FLEISCHMANN, ROBERT
     7
           (ii) TITLE OF INVENTION: NEUROTRANSMITTER TRANSPORTER
     9
          (iii) NUMBER OF SEQUENCES: 6
    11
           (iv) CORRESPONDENCE ADDRESS:
    13
                 (A) ADDRESSEE: Human Genome Sciences, Inc.
                                                                     ENTERED
    14
                 (B) STREET: 9410 Key West Avenue
    15
                 (C) CITY: Rockville
    16
                 (D) STATE: MD
    17
                 (E) COUNTRY: US
    18
                 (F) ZIP: 20850
    19
            (V) COMPUTER READABLE FORM:
    21
                  (A) MEDIUM TYPE: Floppy disk
    22
                 (B) COMPUTER: IBM PC compatible
    23
                 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
    24
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
    25
            (vi) CURRENT APPLICATION DATA:
    27
                  (A) APPLICATION NUMBER: US/09/923,444
C--> 28
                  (B) FILING DATE: 08-Aug-2001
C--> 29
                  (C) CLASSIFICATION:
     30
           (vii) PRIOR APPLICATION DATA:
     32
                  (A) APPLICATION NUMBER: 09/062,815
     33
                  (B) FILING DATE: 1998-04-20
     34
          (viii) ATTORNEY/AGENT INFORMATION:
     35
                  (A) NAME: Michele M. Wales
     36
                  (B) REGISTRATION NUMBER: 43,975
     37
                  (C) REFERENCE/DOCKET NUMBER: PF116
     38
            (ix) TELECOMMUNICATION INFORMATION:
     40
                  (A) TELEPHONE: (301) 309-8504
     41
                  (B) TELEFAX: (301) 309-8439
     42
        (2) INFORMATION FOR SEQ ID NO: 1:
     45
             (i) SEQUENCE CHARACTERISTICS:
     47
                   (A) LENGTH: 2485 base pairs
     48
                   (B) TYPE: nucleic acid
     49
                   (C) STRANDEDNESS: single
     50
                   (D) TOPOLOGY: linear
     51
            (ii) MOLECULE TYPE: DNA (genomic)
     53
            (ix) FEATURE:
     56
                   (A) NAME/KEY: CDS
     57
                   (B) LOCATION: 266..2446
      58
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
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65 CCAGCCCCAG CCGGGGGCCT GTGGCGGGGG AGGAGCTGTG CGTCCGCGAC CCGTCGGGAT

67 CGCAGCTGCT CGGCCGGAGT GCACGGGCCG AGTCTGCGCG ACTACCCACG CGTGACAGGT

69 CCCTGAATGA GAAGGAGCTG ACAGCAGCTG AATTCCATCT TCTCTGTGTG CTGGGGAGCA

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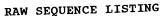
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76	Ara	Glu	His	Ser	Ser	Gl	u Hi	s Va	1 Th	r Gl	u Se	er Va	al.	Ala	Asp	Le.	uь	eu Sc	
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90	λla	Len	Glu	Glu	ı Pro	v Va	l As	р Ту	r Ly	rs Gl	n Se	er Va	al	Leu	Asn	va.	I A.	La	
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136	Gly	Lys	Val	Met	Tyr	Phe	Ser	Ser	Leu	Pne	Pro	TAT	vaı	vaı	пеа	265	
127	250					255					260					203	1108
139	TGC	TTC	CTG	GTC	CGG	GGG	TTG	TTG	TTG	CGA	GGG	GCA	GTT	GAT'	GGC	ATC	1100
140	Cys	Phe	Leu	Val	Arg	Gly	Leu	Leu	Leu	Arg	Gly	Ala	Val	Asp	GIY	TTE	
1/1					270					275					200		1156
1/13	CTA	CAC	ATG	TTC	ACT	CCC	AAG	CTG	GTC	AAG	ATG	CTG	GAC	CCC	CAG	GTG	1156
144	Leu	His	Met	Phe	Thr	Pro	Lys	Leu	Val	Lys	Met	Leu	Asp	Pro	Gln	Val	
115				285					290					295			1004
1 4 7	ТGG	CGG	GAG	GTA	GCT	ACC	CAG	GTC	TTC	TTT	GGC	TTG	GGT	CTG	GGC	TTT	1204
148	Tro	Arq	Glu	Val	Ala	Thr	Gln	Val	Phe	Phe	Gly	Leu	Gly	Leu	Gly	Phe	
1/0			300					305					310				1050
151	GGT	GGT	GTC	ATT	GTC	TTC	TCC	AGT	TAC	AAT	AAG	CAG	GAC	AAC	AAC	TGC	1252
152	Glv	Glv	Val	Ile	Val	Phe	Ser	Ser	Tyr	Asn	Lys	Gln	Asp	Asn	Asn	Cys	
152		315					320					325					
155	CAC	ጥጥር	GAT	GGC	GCC	CTG	GTG	TCC	TTC	ATC	AAC	TTC	TTC	ACG	TCA	GTG	1300
156	His	Phe	Asp	Gly	Ala	Leu	Val	Ser	Phe	Ile	Asn	Phe	Phe	Thr	Ser	vai	
157	330					335					340					343	
159	ጥጥር	GCC	ACC	CTC	GTG	GTG	TTT	GTT	GTT	TTG	GGC	TTC	AAG	GCC	AAC	ATC	1348
160	Teu	Ala	Thr	Leu	Val	Val	Phe	Val	Val	Leu	Gly	Phe	Lys	Ala	Asn	Ile	
161					350					355					360		
163	ΔTG	ААТ	GAG	AAG	TGT	GTG	GTC	GAG	AAT	GCT	GAG	AAA	ATC	CTA	GGG	TAC	1396
164	Met	Asn	Glu	Lvs	Cys	Val	Val	Glu	Asn	Ala	Glu	Lys	Ile	Leu	Gly	Tyr	
165				365					370					3/5			
167	СФФ	ΔΔα	ACC	AAC	GTC	CTG	AGC	CGG	GAC	CTC	ATC	CCA	CCC	CAC	GTC	AAC	1444
168	Len	Asn	Thr	Asn	Val	Leu	Ser	Arg	Asp	Leu	Ile	Pro	Pro	His	Val	Asn	
160			380					385					390				
171	ጥጥር	TCC	CAC	СТС	ACC	ACA	AAG	GAC	TAC	ATG	GAG	ATG	GAC	AAT	GTC	ATC	1492
172	Phe	Ser	His	Leu	Thr	Thr	Lys	Asp	Tyr	Met	Glu	Met	Asp	Asn	Val	Ile	
173		395					400					405					
175	ΔΨG	ACC	стс	AAG	GAG	GAC	CAG	TTC	TCA	GCC	CTG	GGC	CTT	GAC	CCC	TGC	1540
176	Met	Thr	Val	Lvs	Glu	Asp	Gln	Phe	Ser	Ala	Leu	Gly	Leu	Asp	Pro	Cys	
177	410					415					420	l				423	
170	CTT	СТС	GAG	GAC	GAG	CTG	GAC	AAG	TCC	GTG	CAG	GGC	ACA	GGC	CTC	GCC	1588
180	Ten	Leu	Glu	ı Asp	Glu	Leu	Asp	Lys	Ser	Val	Gln	Gly	Thr	Gly	Let	Ala	
1 2 1					430	)				435	,				440	•	
183	ጥጥር	: ATC	: GCC	TTC	ACT	' GAG	GCC	ATG	ACG	CAC	TTC	CCC	ACC	TCC	CCC	TTC	1636
184	Phe	T16	Ala	Phe	Thr	Glu	Ala	Met	Thr	His	Phe	e Pro	Thr	Ser	Pro	Phe	
185				445	;				450	1				45.	,		
107	mee	TCC	GTC	ነ ልጥር	: ጥጥር	TTC	TTG	ATO	CTI	ATC	: AAC	CTG	GGC	CTO	GGG	AGC	1684
188	Trr	Sei	· Val	Met	. Phe	Phe	Leu	Met	Leu	ılle	e Asr	ı Let	ı Gly	Let	ı Gly	y Ser	
190	1		460	)				465	)				4/0	,			
101	<b>አ</b> ጥር	ATC	GGC	a ACC	ATO	GC	A GGC	ATC	ACC	ACC	CCC	CATO	CATO	GAC	CAC	TCC	1732
192	Met	- T16	e Gly	Thi	: Met	: Ala	Gly	, Ile	e Thr	Thi	r	o Ile	e Ile	e Asp	Th	r Ser	
193	₹	47	5				480	)				483	)				
195	5 220	: GT(	G CCC	CAAC	GAG	ATO	TTC	AC	A GTO	GGG	TG	C TG	r GTC	TTT	r AC	A TTC	1780
196	Tive	. Va	l Pro	o Lvs	s Glu	ı Met	. Phe	e Thi	r Val	Gly	у Су	в Су	s Val	L Phe	e Th:	r Phe	
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510 515 520 mg arg arg arg arg arg arg arg arg arg ar	c 1876
201 203 ATG TTC GAT GAC TAC TCA GCC ACG CTG CCA CTC ACT CTC ATC GTC ATC	•
and wet the Ach Ach Tyr Ser Ala Thi Led Flo Dea 1112	C
205 525 207 CTT GAG AAC ATC GCT GTG GCC TGG ATT TAT GGA CCC AAG AAG TTC ATG	t
208 Leu Glu Asn Ile Ala Val Ala Trp Ile Tyl Gly 110 Zr	
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212 Cln Clu Leu Thr Glu Met Leu Gly Phe Alg Flo 191 1119 1119	.0
213 555 560 215 TAC ATG TGG AAG TTC GTG TCT CCA CTA TGC ATG GCT GTG CTC ACC ACC 215 TAC ATG TGG AAG TTC GTG TCT CCA CTA TGC ATG GCT GTG CTC ACC ACC	ır
216 Tyr Met Trp Lys Phe Val Ser Pro Led Cys Met 172 589	35
217 570 219 GCC AGC ATC ATC CAG CTG GGG GTC ACG CCC CCG GCC TAC AGC GCC TGC	q:
220 Ala Ser Ile Ile Gln Leu Gly Val IIII FIO III 1 600	•
221 590 223 ATC AAG GAG GAG GCT GCC GAG CGC TAC CTG TAT TTC CCC AAC TGG CC	ro
223 ATC AAG GAG GAG GCT GCC GAG CGC THO DT TYP Phe Pro Asn Trp Pr 224 Ile Lys Glu Glu Ala Ala Glu Arg Tyr Leu Tyr Phe Pro Asn Trp Pr 610 615	
225 605 605 600 ATC GTG GTG GCG ACG CTG CCC ATC CC 227 ATG GCA CTC CTG ATC ACC CTC ATC GTG GCG ACG CTG CCC ATC CC	CT 2164
227 ATG GCA CTC CTG ATC ACC CTC ATC GTC GTC GTC GTC GTC GTC GTC GTC GTC G	ro
229 620 622 231 GTG GTG TTC GTC CTG CGG CAC TTC CAC CTG CTC TCT GAT GGC TCC AA	AC 2212
231 GTG GTG TTC GTC CGG CAC ITC CAS STO SET ASP Gly Ser As 232 Val Val Phe Val Leu Arg His Phe His Leu Leu Ser Asp Gly Ser As	sn
233 635 THE TIES THE ANG ANG GCC CGC ATG ATG AAG GAC ATC TO	CC 2260
235 ACC CTC TCC GTG TCC TAC AAG AAG GCC GGG HET Met Lys Asp Ile Se 236 Thr Leu Ser Val Ser Tyr Lys Lys Ala Arg Met Met Lys Asp Ile Se 660	er
237 630 ATC CATC AGC AGC AAG GTG CC	CC 2308
239 AAC CTG GAG GAG AAC GAT GAG ACC CGG 110 M10 010 240 Asn Leu Glu Glu Asn Asp Glu Thr Arg Phe Ile Leu Ser Lys Val Pi 675 680	ro
241 CT TAT CTG GGG ATC CCC ACT CAC CGT TCC TAT CTG GGG CC	cc 2356
244 Cor Clu Ala Pro Ser Pro Met Pro Thi His Aig Bot 11-	ro
245 685 247 GGC AGC ACA TCA CCC CTG GAG ACC AGC TGG AAC CCC AAT GGA CCC TG 247 GGC AGC ACA TCA CCC CTG GAG ACC TGG AAC CCC AAT GGA CCC TG	TAT Z404
249 Cly Ser Thr Ser Pro Leu Glu Thr Ser IIP Ash IIO 1151 1-1	гАт
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252 Gly Arg Gly Tyr Leu Leu Ala Ser Thi Pio Giu Bei Glu	
253 715 /20	2485
255 TGACCACTGC CCAAGCCCAT GCCCGCTCTC CCCCCACCG	_
258 (2) INFORMATION FOR SEQ ID NO: 2:	
260 (i) SEQUENCE CHARACTERISTICS:	
261 (A) LENGTH: 727 amino acids	
262 (B) TYPE: amino acid	
263 (D) TOPOLOGY: linear	
265 (ii) MOLECULE TYPE: protein	
267 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 269 Met Pro Lys Asn Ser Lys Val Thr Gln Arg Glu His Ser Ser Glu F	His
269 Met Pro Lys Asn Ser Lys var int Gin Mig 020	

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273 275 Tyr		_	20		<b>.</b>	3 an '	17a 1	7 L J	G1 v	Glu	Ala	Glv	Gly	Lys	Gln
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282 65 284 Gly		_	_		70	Dwo	marr.	T.e11	Cvs	Gln	Lvs	Asn	Gly	Gly	Gly
285 287 Ala		_		85	Птт	Tau	Val	T.e.11	Leu	Ile	Ile	Ile	Gly	Ile	Pro
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297 145 299 Ile	a1	m	Cor	Tla	Dhe	Tvr	Phe	Phe	Lys	Ser	Phe	Gln	Tyr	Pro	Leu
300 302 Pro	m	C 0 20	C111	702	Pro	Val	Val	Arq	Asn	Gly	Ser	Val	Ala	Val	Val
303 305 Glu	31.	c1.,	100	Glu	T.vs	Ser	Ser	Ala	Thr	Thr	Tyr	Phe	Trp	Tyr	Arg
306 308 Glu	310	193	λen	Tle	Ser	Asp	Ser	Ile	Ser	Glu	Ser	Gly	Gly	Leu	Asn
309 311 Trp	210	Mot	Thr	T.e.u	Cvs	Leu	Leu	. Val	. Val	Trp	Ser	Ile	Gly	Gly	Met
312 225 314 Ala	1721	Glv	T.VS	Glv	Ile	Gln	Ser	Sei	G13	y Lys	. Val	Met	Tyr	Phe	ser
315 317 Ser	T.011	Dhe	Pro	Ͳvr	Val	Val	Leu	ı Ala	а Суя	s Phe	e Leu	ı Val	. Arg	Gly	Leu
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321 323 Leu	val	Lvs	Met	Leu	ı Asp	Pro	Glr	ı Va	l Tr	p Arg	y Glu	ı Val	L Ala	ı Thi	c Gin
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324 326 Val	Phe	Phe	Gly	Leu	ı Gly	Leu	ı Gly	y Ph	e Gl	y Gly	y Val	LIle	e Va.	L Phe	e Ser
327 305 329 Sei	r Tvr	Asr	Lys	Glr	n Asp	Asr	a Ası	n Cy	s Hi	s Phe	e As	o GT	A VT	а це	r var
330 332 Sea	r Phe	: I16	a Asr	Phe	e Phe	e Thi	r Se	r Va	l Le	u Ala	a Th	r Le	u va	ı va.	I Phe
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333 335 Va	l Val	Let	ı Gly	Phe	e Ly	s Ala	a As	n Il	e Me	t As	n Gl	u Ly	s Cy	s va	т мат
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336 338 Gl	u Ası	n Ala	a Glu	ı Ly	s Il	e Le	u Gl	у Ту	r Le	u As	n Th	r As	n va	т те	u ser
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339 341 Ar	q Ası	p Le	u Ile	e Pr	o Pr	o Hi	s Va	1 As	n Ph	ie Se	r Hi	s Le	u Tn	T TH	400
342 38		-			39	0	•			39	5				400

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/923,444

DATE: 11/14/2001

TIME: 12:13:14

Input Set : N:\Crf3\RULE60\09923444.txt
Output Set: N:\CRF3\11142001\I923444.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]